

A round cake decorated with white frosting and large red icing swirls. A slice has been removed, revealing a multi-layered interior with light-colored cake and dark filling.



Paradox

CONNECTED *Learning*

EQUITABLE. SOCIAL. AND PARTICIPATORY

Connected learning is a model of learning that holds out the possibility of reimagining the experience of education in the information age. It draws on the power of today's technology to fuse young people's interests, friendships, and academic achievement through experiences laced with hands-on production, shared purpose, and open networks.

PRODUCTION CENTERED

Connected learning prizes the learning that comes from **actively producing, creating, experimenting, and designing**, because it promotes skills and dispositions for lifelong learning, and for making meaningful contributions to today's rapidly changing work and social conditions.

INTERESTS

Interests foster the drive to gain knowledge and expertise. Research has repeatedly shown that when the topic is personally interesting and relevant, learners achieve much higher-order learning outcomes. Connected learning views interests and passions that are developed in a social context as essential elements.

SHARED PURPOSE

Today's social media and web-based communities provide unprecedented opportunities for caring adults, teachers, parents, learners, and their peers to share interests and contribute to a common purpose. The potential of **cross-generational learning and connection** unfolds when centered on common goals.



PEER CULTURE

Connected learning thrives in a socially meaningful and knowledge-rich ecology of ongoing participation, self-expression, and recognition. In their everyday exchanges with peers and friends, young people fluidly contribute, share and give feedback. Powered with possibilities made available by today's social media, this peer culture can produce learning that's engaging and powerful.

OPENLY NETWORKED

Connected learning environments **link learning in school, home, and community**, because learners achieve best when their learning is reinforced and supported in multiple settings. Online platforms can make learning resources abundant, accessible, and visible across all learner settings.

ACADEMIC

Connected learning recognizes the importance of academic success for intellectual growth and as an avenue towards economic and political opportunity. When academic studies and institutions draw from and connect to young people's peer culture, communities, and interest-driven pursuits, learners flourish and realize their true potential.

ACTIVE RELEVANT REAL-WORLD EFFECTIVE HANDS-ON



teaching and learning in schools never seems to change

technologies are transforming teaching and learning

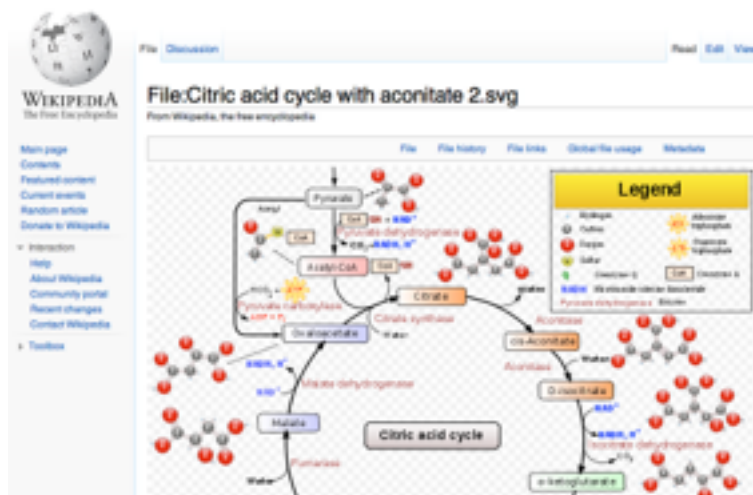
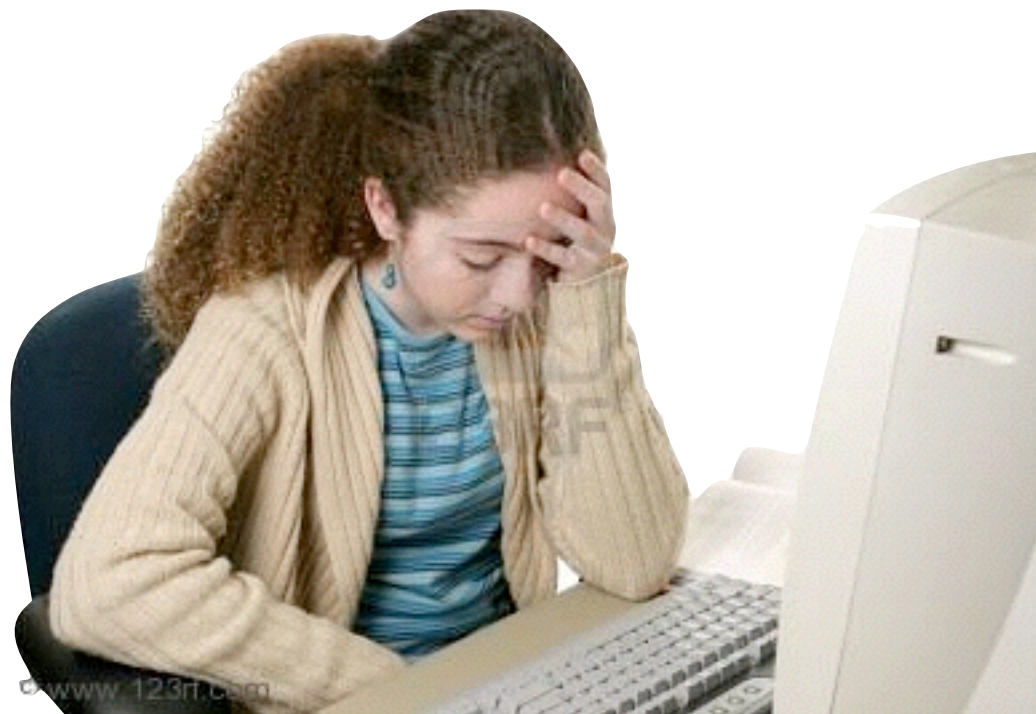
Paradox

teaching and learning in schools never change

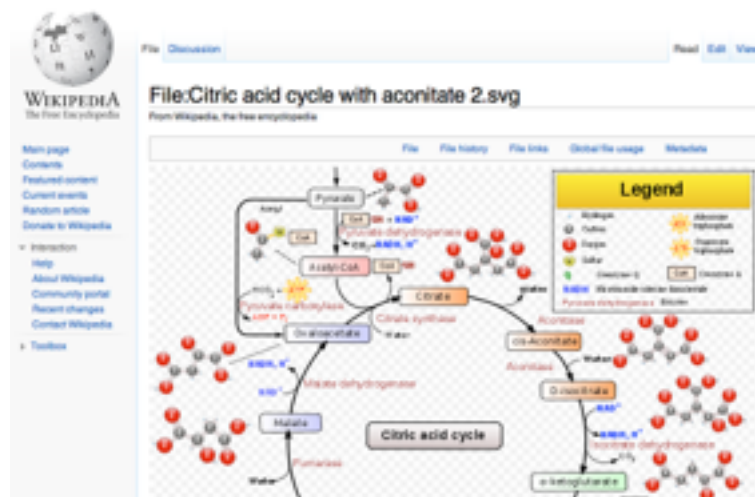




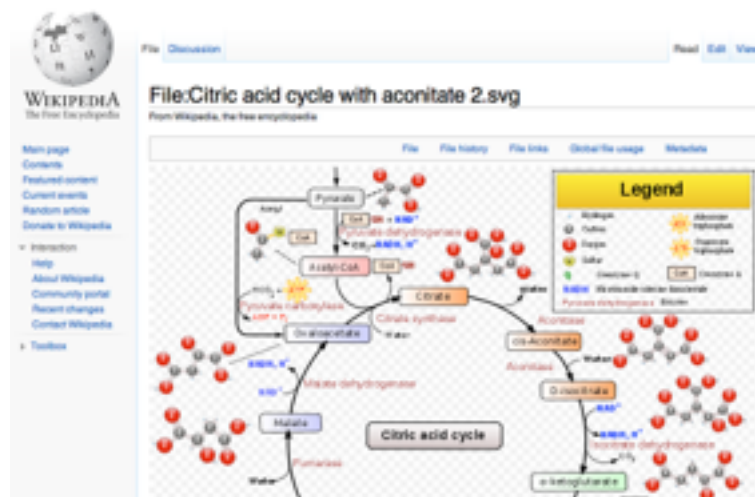




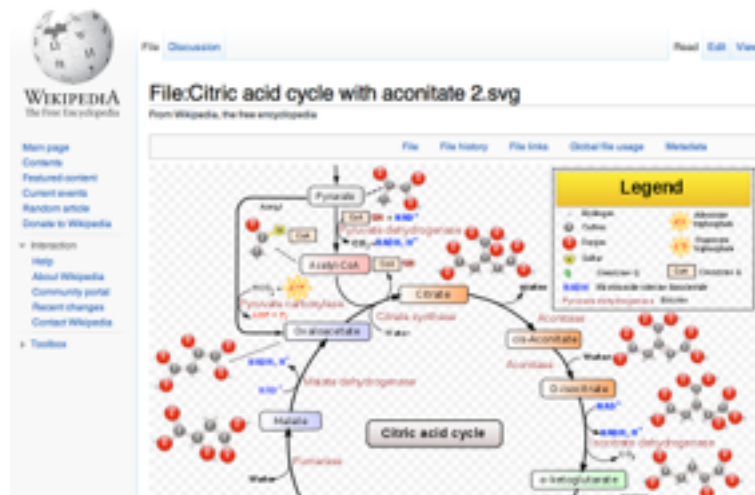
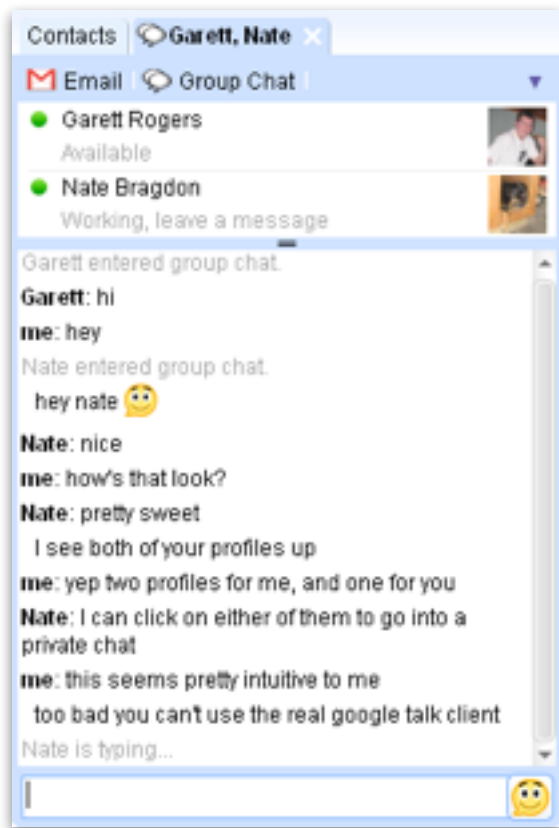
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"Philosophy is written in that great book which ever lies before our eyes — I mean the universe — but we cannot understand it if we do not first learn the language and grasp the symbols, in which it is written. This book is written in the mathematical language... without which one wanders in vain through a dark labyrinth."

-Galileo Galilei

30% off \$20

Discount = 30% of \$20 = 0.30 · \$20

Let x be price of product

Discount = 30% of x = 0.30 · x

and I would get the discount.

The Beauty of Algebra

Khan Academy · 4,012 videos

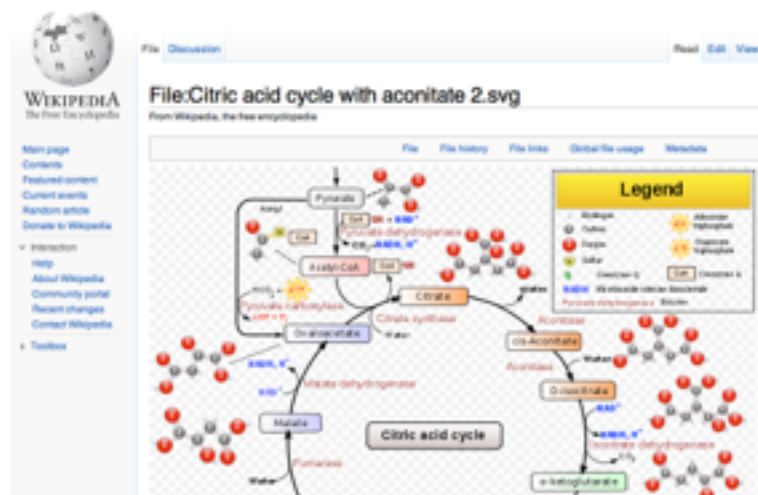
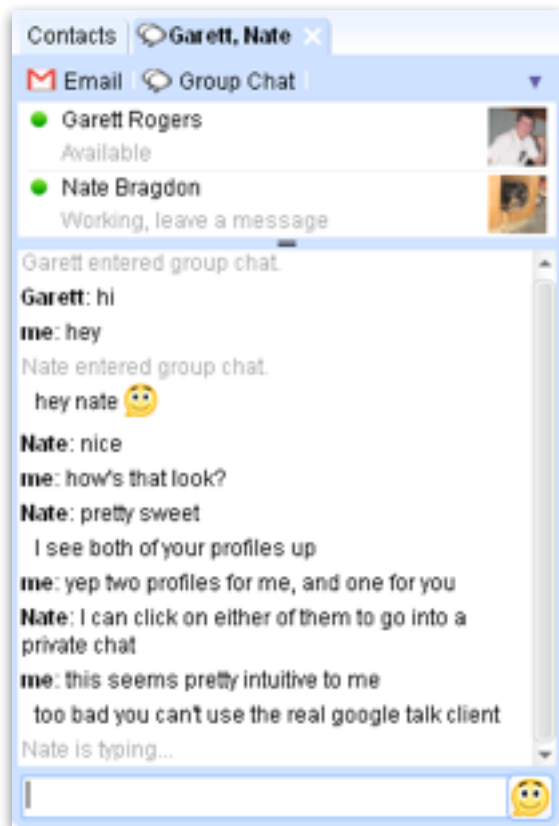
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"Philosophy is written in that great book which ever lies before our eyes — I mean the universe — but we cannot understand it if we do not first learn the language and grasp the symbols, in which it is written. This book is written in the mathematical language... without which one wanders in vain through a dark labyrinth."

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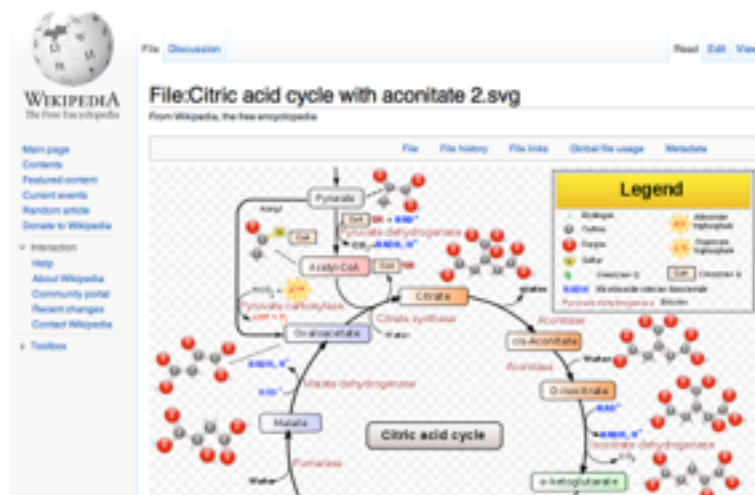
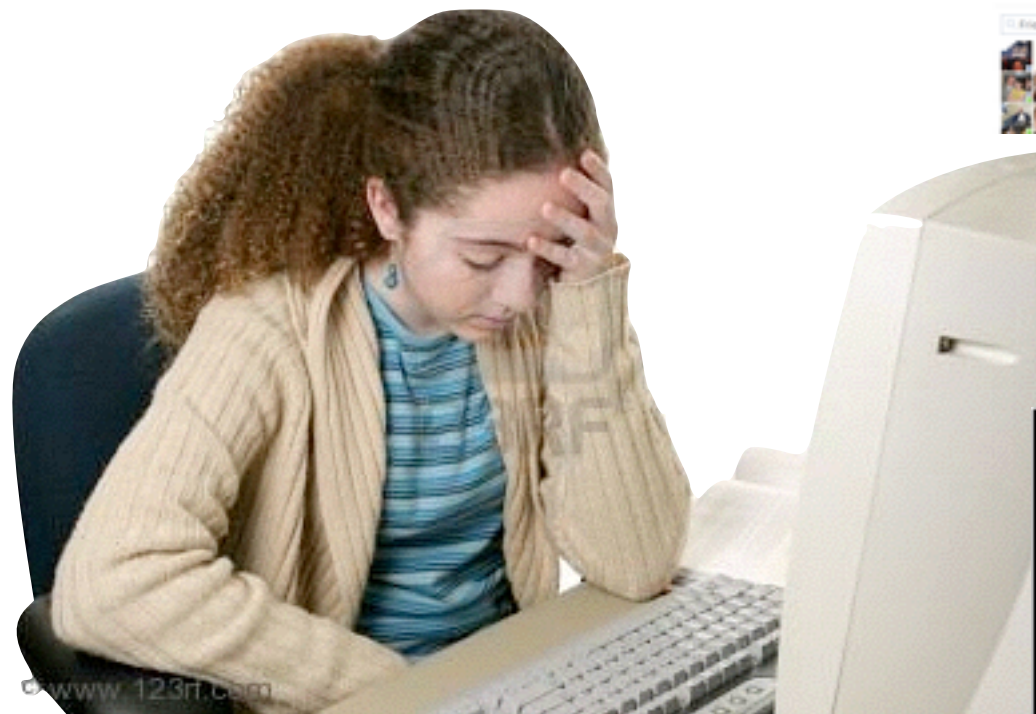
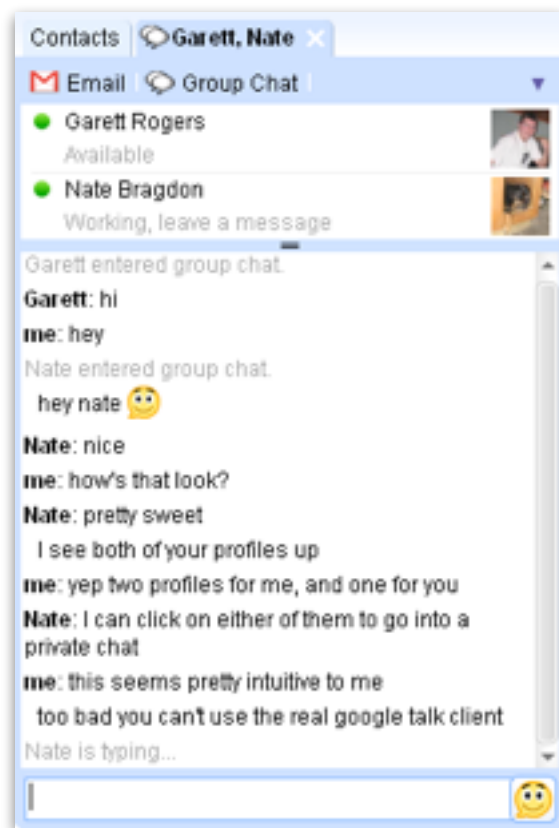
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designing her
own learning
environment



RETHINKING EDUCATION IN THE AGE OF TECHNOLOGY

The Digital Revolution
and Schooling in America

ALLAN COLLINS AND
RICHARD HALVERSON

Foreword by John Seely Brown



Two Models of Teaching and Learning

teaching



learning

teaching

schooling



learning

teaching

schooling

disciplines



learning



learners



learners

affinity spaces



learners

affinity spaces

discourses



learners

affinity spaces

discourses

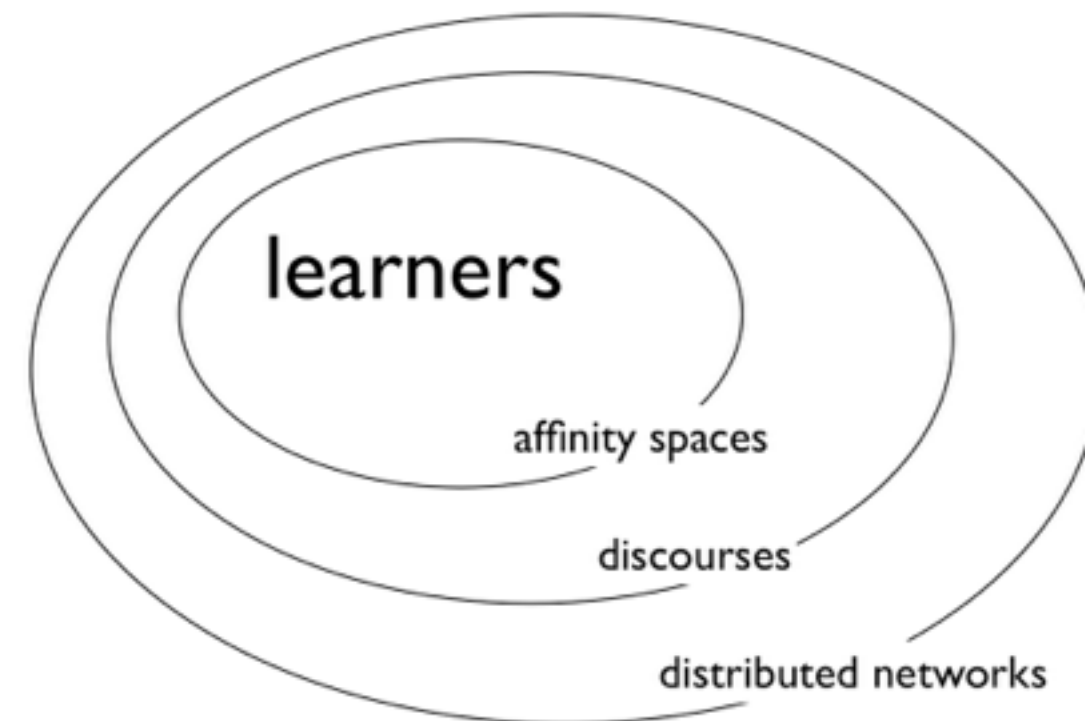
distributed networks

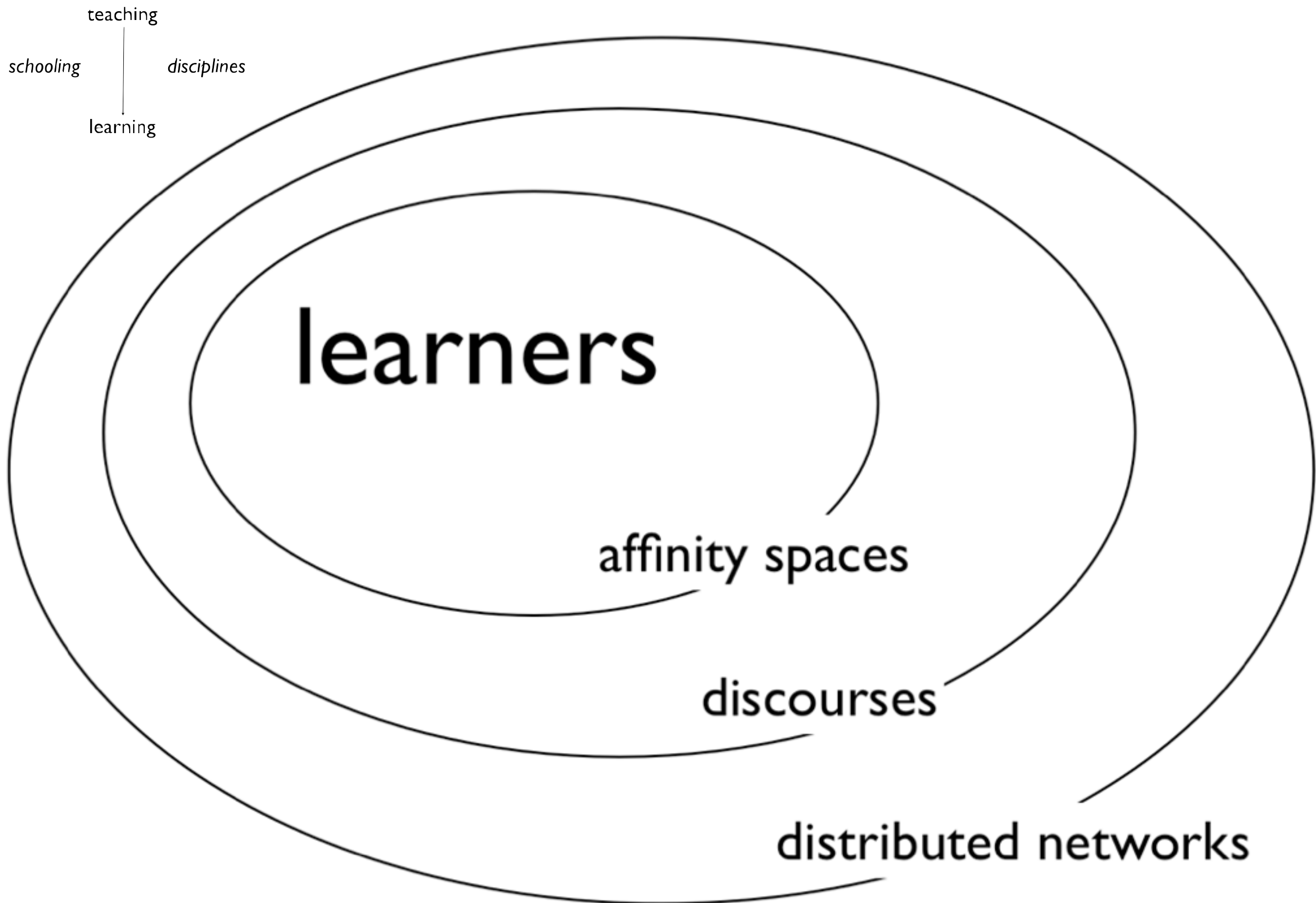
teaching

schooling

disciplines

learning







participatory cultures



participatory cultures



understanding learning in the wild

The John D. and Catherine T. MacArthur Foundation Reports on
Digital Media and Learning

Confronting the Challenges of Participatory Culture

Media Education for the 21st Century

Henry Jenkins

with Ravi Purushotma, Margaret Weigel, Katie Clinton,
and Alice J. Robison



MACARTHUR
The John D. and Catherine T. MacArthur Foundation




Henry Jenkins
USC

A large crowd of people at a night festival, with many hands raised in the air, suggesting a lively atmosphere. The background shows a dark sky with some clouds and distant lights.

Participatory cultures

Jenkins, et. al. 2006

MacArthur Foundation Digital
Media & Learning Project


A large crowd of people at a night festival, with many hands raised in the air, suggesting a lively atmosphere. The background shows a dark sky with some clouds and distant lights.

Authentic audience

Participatory cultures

Jenkins, et. al. 2006

MacArthur Foundation Digital
Media & Learning Project

A large crowd of people at a night festival, with many arms raised in the air. The scene is illuminated by stage lights, and the background shows a dark sky with some clouds.

Access to mentoring

Authentic audience

Participatory cultures

Jenkins, et. al. 2006

MacArthur Foundation Digital
Media & Learning Project

Open questions

Access to mentoring

Authentic audience

Participatory cultures

Jenkins, et. al. 2006

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Quality contributions matter

Open questions

Access to mentoring

Authentic audience

Participatory cultures

Jenkins, et. al. 2006

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Scaffolded participation

Quality contributions matter

Open questions

Access to mentoring

Authentic audience

Participatory cultures

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Pinterest



Pinterest

user-generated
professional learning communities



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Teachers on Pinterest

A pinspiring place for teachers to find and share creative ideas. Follow these boards for lesson plans, classroom decor and lots more for lively learning.

United States · pinterest.com/teachers



32 Boards

10 Pins

0 Likes

Follow All

Send Profile

100,256 Followers

Preschool



1,703 Pins



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Kindergarten

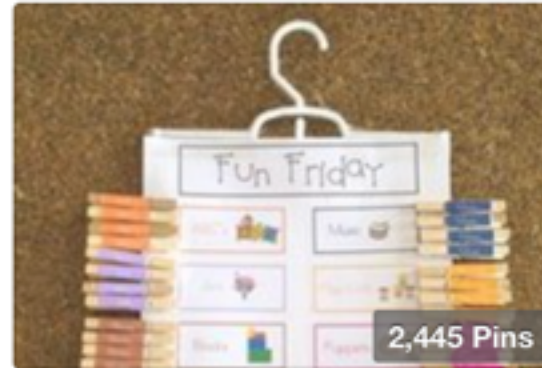


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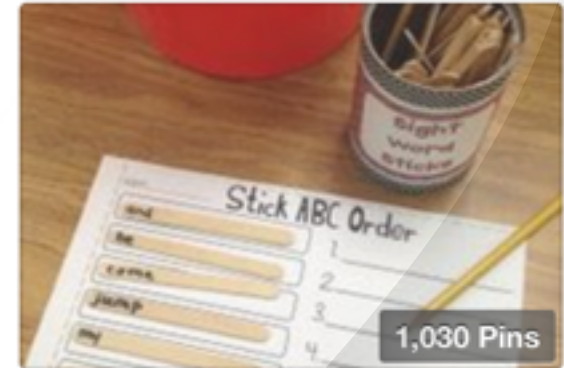


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2nd Grade



1,030 Pins

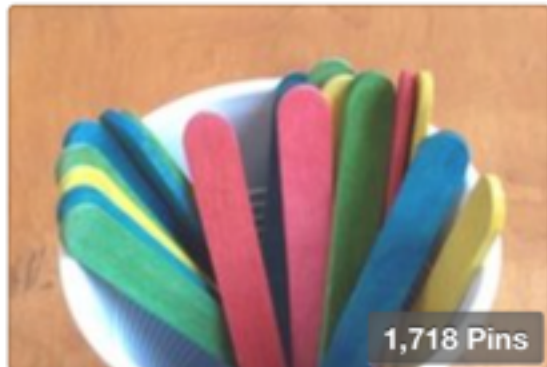


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3rd Grade



4th Grade



1,718 Pins



5th Grade



776 Pins



6th Grade



1,555 Pins



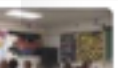
Art



936 Pins



Science





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48.7 million users each month

500,000 education pins daily

<http://www.edutopia.org/blog/teachers-stuck-on-pinterest-kendra-jarvis>



reinventing professional networks

Citizen Science



Citizen Science

crowdsourcing science



SETI@home Multi-Beam

Computing Fast Fourier Transform
Doppler drift rate -1.5306 Hz/sec Resolution 0.149 Hz
Best Gaussian: power 2.96 , fit 1.305 , score -2.317



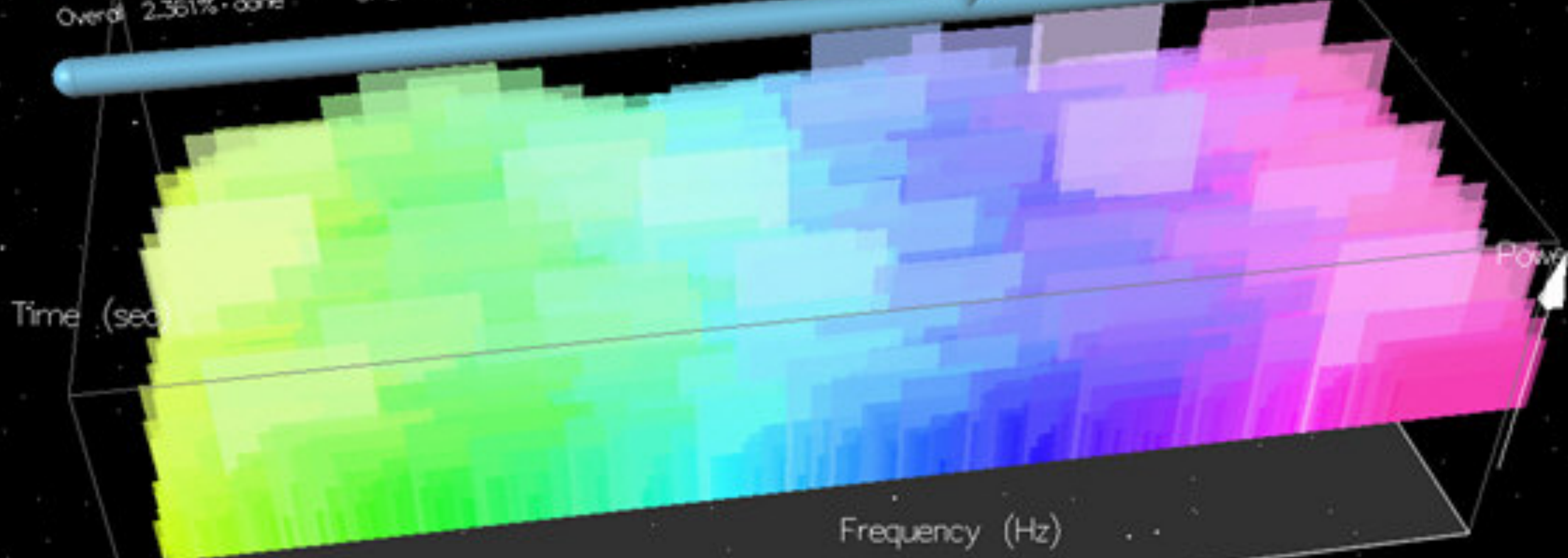
Data info

From: 10 hr 11' 6" RA +19 deg 56' 20" Dec
Recorded on: Sun Feb 17 06:05:00 2008
Recorded at: Arecibo 1.4GHz Array, Beam 4, Pol 0
Base frequency: 1.420136719 GHz

User info

Name: Softonic
Team:
Total credit: 0.00

Overall 2.361% done CPU time: 5 min 28.11 sec



SETI@home

The Search for Extraterrestrial Intelligence





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Point Beach State Forest

From Wikipedia, the free encyclopedia

Point Beach State Forest is a 2,903-acre (1,175 ha) [Wisconsin state forest](#) near [Two Rivers, Wisconsin](#) in [Manitowoc County](#). The forest is located along 6 miles (9.7 km) of the [Lake Michigan](#) coast. Point Beach State Forest was established in 1938.^[1] The [Point Beach Ridges](#), a [National Natural Landmark](#), are located within the forest.^[2]

Images [edit]



[Point Beach Ridges](#)

References [edit]

- ↑ "Wisconsin State Parks History" [↗](#). Wisconsin Department of Natural Resources. 2009-05-29. Retrieved 2009-06-05.
- ↑ "Point Beach Ridges" [↗](#). Wisconsin Department of Natural Resources. Retrieved 2012-01-19.

External links [edit]

- [Point Beach State Forest website](#) [↗](#)

The Science Behind Foldit

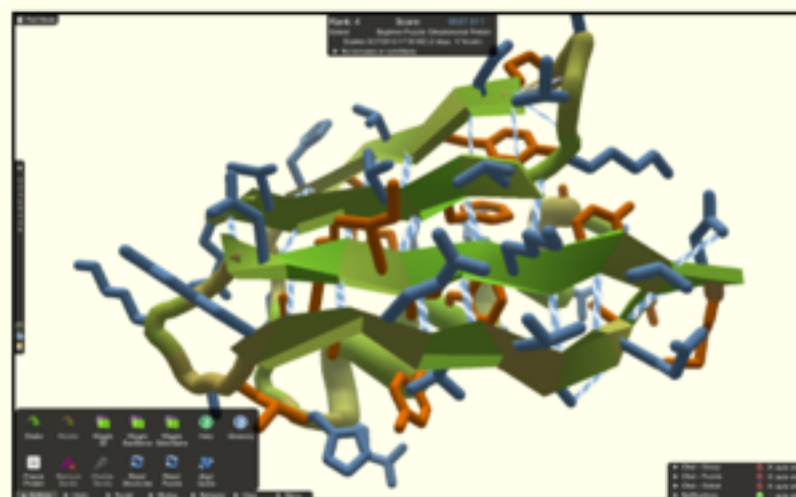
Foldit is a revolutionary new computer game enabling *you* to contribute to important scientific research. This page describes the science behind Foldit and how your playing can help.

Page Contents:

[What is protein folding?](#)
[Why is this game important?](#)
[Foldit Scientific Publications](#)
[News Articles about Foldit](#)
[News Articles about Rosetta](#)
[Rosetta@Home Screensaver](#)
[Community Rules](#)
[Let's Foldit Podcast](#)
[Instructions for Educators](#)
[Terms of Service and Consent](#)
[Credits](#)

What is protein folding?

What is a protein? Proteins are the workhorses in every cell of every living thing. Your body is made up of trillions of cells, of all different kinds: muscle cells, brain cells, blood cells, and more. Inside those cells, proteins are allowing your body to do what it does: break down food to power your muscles, send signals through your brain that control the body, and transport nutrients through your blood. Proteins come in thousands of different varieties, but they all have a lot in common. For instance, they're made of the same



Folded up Streptococcal Protein Puzzle

[\(+ Enlarge This Image\)](#)

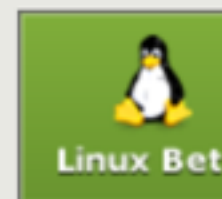
GET STARTED: DOWNLOAD



Windows
(XP/Vista/7)



OSX
(Intel 10.5 or later)



Linux
(64-bit)

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[Are you an educator? Click here.](#)

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SEANET

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SEANET

The Seabird Ecological Assessment Network (SEANET) is a citizen science program that brings together interdisciplinary researchers and members of the public in a long-term collaborative effort to identify and mitigate threats to marine birds.

SEANET was initiated by the Tufts Center for Conservation Medicine, in collaboration with the Lloyd Center for Environmental Studies in Massachusetts, during Autumn 2002. Since this time, the project has expanded to beaches throughout New England, New York and New Jersey and more recently, to the southeastern US, with beaches in South Carolina, Georgia and Florida. For the latest SEANET news and updates, visit [the SEANET Blog](#).

SEANET volunteers conduct year-round beached bird surveys in order to identify and record information about bird mortality along the east coast of the United States. Data collected by hundreds of SEANET volunteers are used to examine the spatial pattern of bird carcass deposition and how it varies across time.

These surveys provide baseline information about bird mortality and can help to detect mass mortality events due to oil spills, algal toxins, and disease outbreaks. Marine birds can serve as indicators of ecosystem and human health; monitoring the threats they face and their mortality patterns can teach us about the health of the



Overview

Start Playing

Mystery #243

change cell

Online (77): 1sigor, ronin, sambob496, michellewooten, Mamarok, aluorvats, mohamed314, devonjones, dereksims, Hoodwinked, BenSilverman, merlmoor, benficus, vogon, mlweiss10, lotus98, EAG123, Andrearwen, Varppi, chrisotahal, razorgrass, Art111, alecsegal, Freddo92, GrandmereLouise, hbb, jacejace, asnjhaley, JPD, candychewning, mrmathi, kszechman, gallifray, paul.s, Yorwba, Maj86, haaheekonohia, JulesB, BlazeHomalon808, Naiyah, skylip, brysonespino, MikaylaS, oresin, KeireH, EmeryJade, BatMan808, Nev, angie.angie, goatpickle, Andruw808, Link808, Psiclops, Wargo, pandaexpress, rprentki, nkem_test, almightymatt19, essge, deniceb87, sorek.m, faunhaert, lobusparietalis, jzettel, toocajun, aporiatwo, rinda, muwave, mamateresa, laxcav, jabsco, tiikerikani, cheewee2000, twister2, MaraTara, reliad, herkeemo

Fabulous Eyewirers




















Happy Hour

regular

today

week

month

rank	username	points
1	Nseraf 	80013
2	nopasaran 	75497
3	Varppi 	73055
4	benficus 	53600
5	laxcav 	50086
6	jamiexq 	46131
7	sambob496 	42919
8	susi 	41357
9	twister2 	40793
10	mohamed314 	40577
11	leehy250 	35590
12	sikan92	34975
13	dereksims 	33910
14	sneakybaron 	33590
15	dataminerstarr 	33440
16	MikeGB 	33194
17	wendy529 	33068
18	aesanta1 	32487
19	michellewooten 	32461
20	brianamywa 	32259

Citizen Science

Real participation
in authentic
science inquiry



Citizen Science

Real participation
in authentic
science inquiry

Hub and spoke model:
distributed networks of
data collection and analysis





Gaming









The image features three anthropomorphic animal characters standing behind a large, curved wooden sign. On the left is a rabbit wearing a green hat and overalls, holding a bowl of corn. In the center is a bear wearing a plaid hat and a blue jacket, holding a large axe. On the right is a pig wearing a yellow hard hat with a headlamp and safety glasses, holding a clipboard and a pen. The sign they are standing behind has the word "ECONAUTS" written in large, bold, yellow-orange letters with a 3D effect.

ECONAUTS



VIRULENT



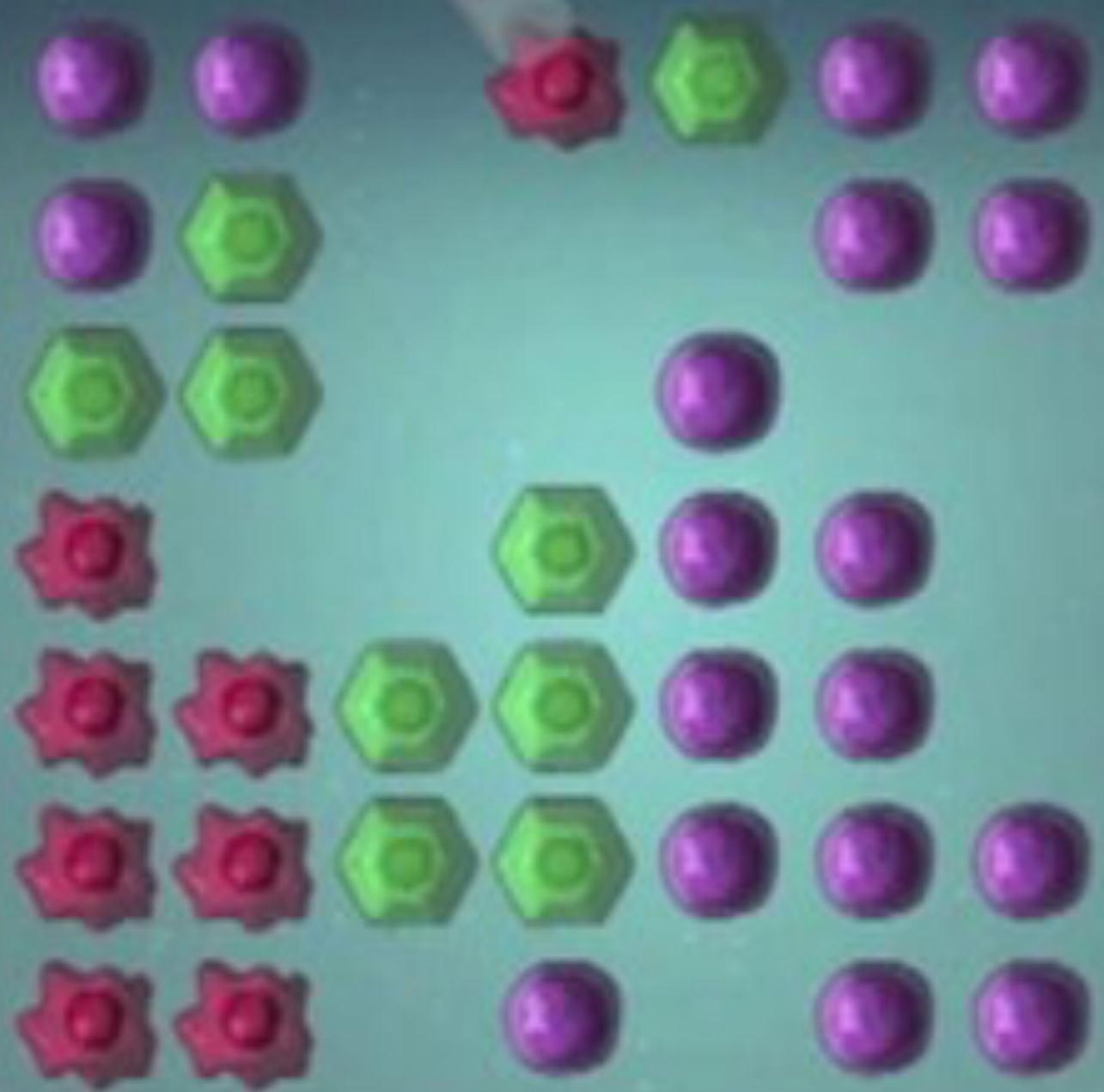


 978

 0

 8/10























Dr. Yeong:
Remember to keep an eye on the Health Meter.





leadership



leadership

theory-crafting



leadership

theory-crafting

cheating

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Subject

- ☐ Arts
- ☐ English Language Arts
- ☐ Foreign Language
- ☐ Health
- ☒ Math
- ☐ Science
- ☐ Social Studies
- ☐ Technology

Age Level

- ☐ 5-6
- ☐ 7-9
- ☒ 10-12
- ☐ 12-14
- ☐ 14-16
- ☐ 16-18
- ☐ 18+

World Type

- ☐ Adventure
- ☒ Exploration
- ☐ Mission Based
- ☐ Observation
- ☐ Puzzle
- ☐ Story

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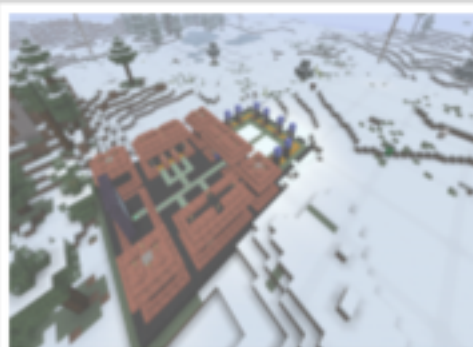
Decimal Island

Ages 7-12

Published by [MisterA](#) • 10 months ago • 0

This map is a math adventure. Students will spawn on an isolated island where they will quickly be tasked with finding the three hidden quests on the island. Each question will have to do with addition and subtraction of decimals.

Math > Numeracy and Operations - Decimals (Addition and Subtraction)



Coordinate Hunt

Ages 7-12

Published by [MisterA](#) • 9 months ago • 0

In this map students will use coordinate grid skills to find a vast amount of items hidden on the course. They will document the item and coordinates they were found on in a digital journal. Ready...set...go!

Math > Measurement and Data - Coordinate Grids



Division Farms

Ages 7-12

Published by [MisterA](#) • 9 months ago • 0

Welcome to the Momilani Farms! I hope you brought your boots and gloves, because we are going to put you to

maker spaces



the new third space

maker spaces





Open source is changing the world

A Red Hat community service 

[Open*](#)[Business](#)[Education](#)[Government](#)[Health](#)[Law](#)[Life](#)

What is open source?

What is open source?

The term "open source" refers to something that can be modified because its design is publicly accessible.

While it originated in the context of computer software development, today the term "open source" designates a set of values—what we call [the open source way](#). In general, open source projects, products, or initiatives are those that embrace and celebrate open exchange, collaborative participation, rapid prototyping, transparency, meritocracy, and community development.

What is open source software?

Open source software is software whose source code is available for modification or enhancement by anyone.

"Source code" is the part of software that most computer users don't ever see; it's the code computer programmers can use to change how a piece of software works. Programmers who have access to a computer program's source code can improve that program by adding features to it or fixing parts that don't always work correctly.

What's the difference between open source software and other types of software?

Open source resources

[WHAT IS OPEN SOURCE?](#)[CONFERENCES AND EVENTS](#) 19[OPEN SOURCE BOOKS](#)[PROJECTS AND APPLICATIONS](#)[ORGANIZATIONS](#)[SEND AN ECARD](#)[WEEKLY SPOTLIGHT](#)[HOW TO GET BEGINNERS STARTED](#)



Neil









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Find all your DIY electronics in the Maker Shed → 3D Printing, Kits, Arduino, Raspberry Pi, Books & more!

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Inventables' New Mill

A quiet and safe CNC Mill for your desktop



Cool Crowdfunding

This week's cool projects to check out



Incredible Insects 3D printed

An insightful interview about printing museum pieces



WHAT'S HOT: Halloween Pirate Shipwreck Yard Display

By: **Andrew Salomone**

Well, this incredible Halloween yard display, featuring a full-sized pirate ghost ship that seems to have collided with a house...

READERS.COM
happy eyes happy wallet

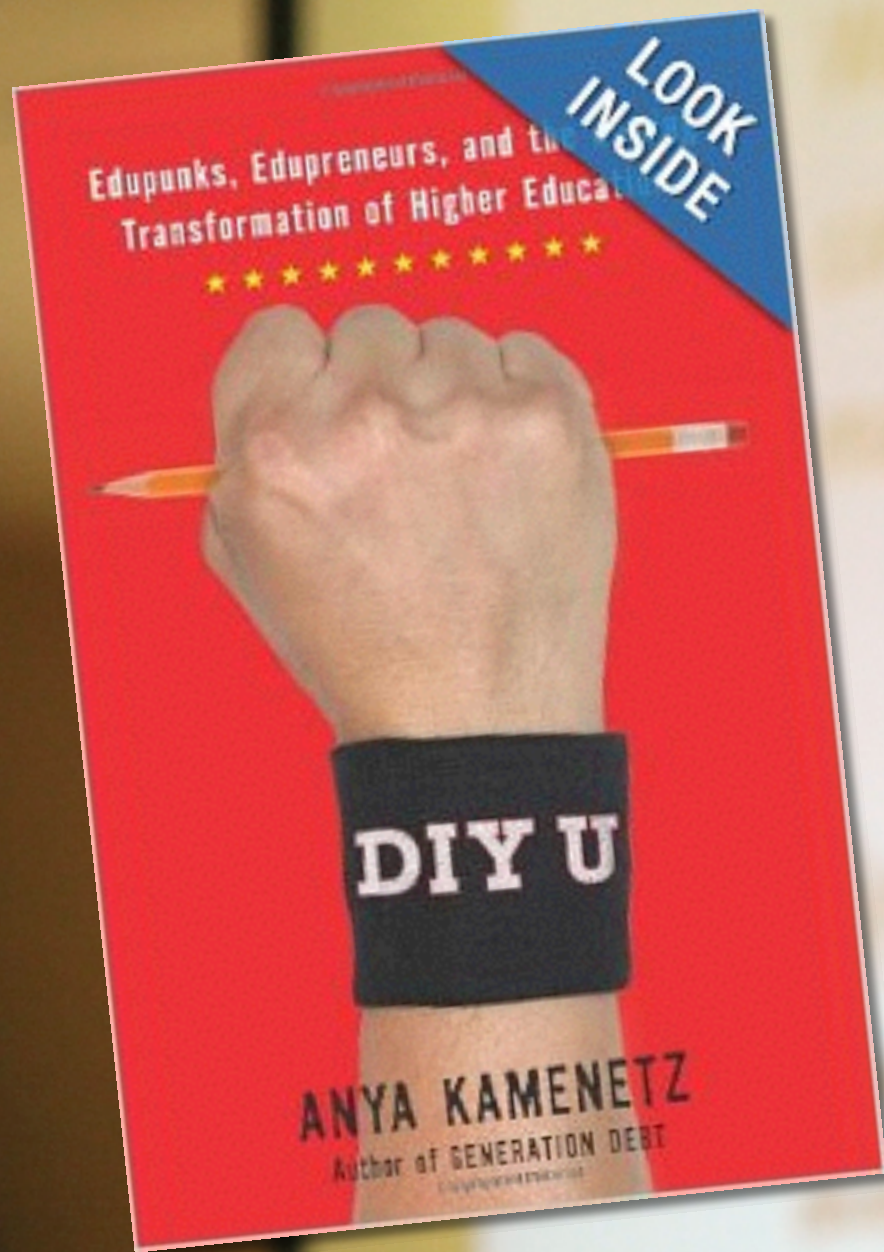
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GET STARTED WITH ARDUINO

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Anya Kamenetz

big data

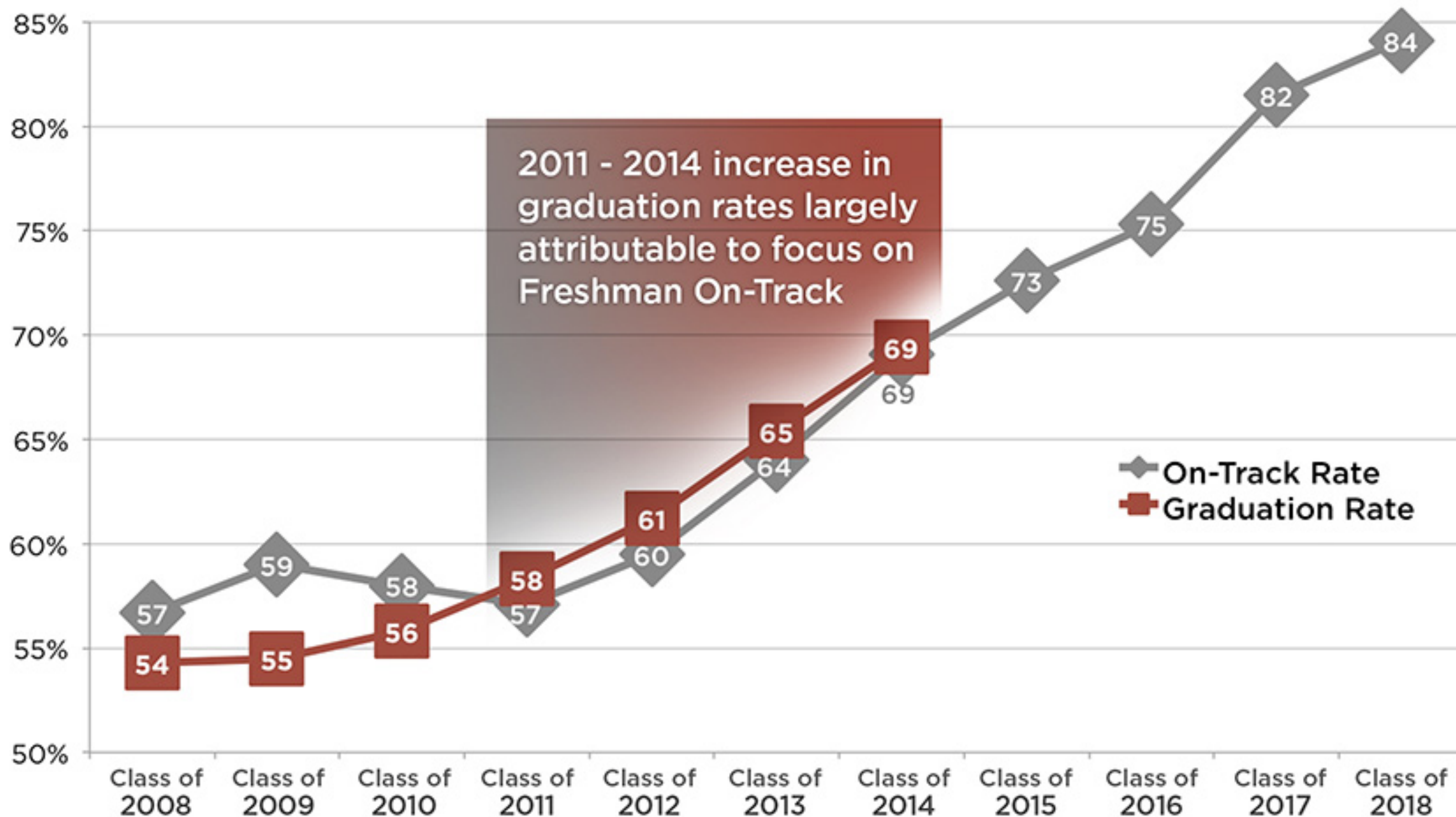


fantasy sports



big data

See How Chicago is Solving its Dropout Crisis by Focusing on Ninth Grade



On-Track Focuses Attention on What Matters: Grades and Attendance in 9th Grade

High schools that experienced sustained success approached On-Track with four underlying principles.

Student Data:

District provides data on students most at risk of going off track, to the right people within schools, in a timely way.

Leadership:

Principal prioritizes on-track and ensures buy-in among teachers, counselors and larger school community.

Collaboration:

9th grade teachers collaborate and share strategies within a school, and across schools.

Personalization:

Interventions are tailored to each child's specific needs based on deep knowledge of their individual course performance.

The Network for College Success Coaches Schools to Get On-Track Results



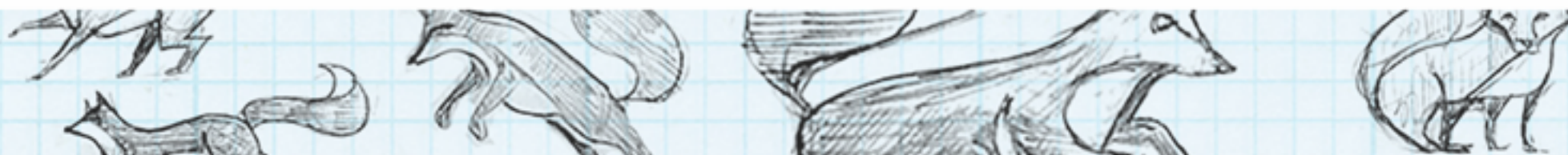
NCS Supports High Schools to Implement On-Track Strategies > 

Monitoring and Support Keeps 9th Graders on Track to Graduation



Learn Why 9th Grade is a Key Leverage Point for Graduation > 

DataLab



MARKETS

When To Pay Attention To The Stock Market (And When To Ignore It)

10:00 AM | By BEN CASSELMAN



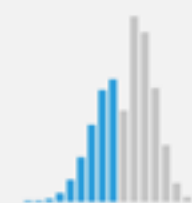
INTERACTIVES

Senate Forecast

UPDATED 5:40 PM EDT | OCT 17



Republicans have a **62.2%** chance of winning a majority.



Democrats have a **37.8%** chance of keeping the majority.

Pollster Ratings



COGNITIVE SURPLUS

CREATIVITY AND GENEROSITY
IN A CONNECTED AGE

CLAY
SHIRKY



Cade McNown Memorial League ³ Notes

Season: 2014















[Matchups](#)
[Smack Talk](#)

[<](#)
[Week 6](#)
[v](#)
[>](#)

The JV Squad Brings Down Riveras to Grab Ninth Place

[Read Recap](#)

Week 6 - Final Results

Riveras 2-4-0 10th		102.36	112.90		The JV Squad 3-3-0 9th
Wide Receivers 4-2-0 4th		109.56	107.20		Norwood's Avengers 4-2-0 5th
GUAPOS 3-3-0 6th		87.72	89.02		Hormonal Crunch 2-4-0 12th
BearJews 4-2-0 3rd		97.90	84.64		gin and jews 1-5-0 14th
Bernie's Babies 3-3-0 7th		118.22	80.92		MOOKS! 2-4-0 13th
Safety Dancers 5-1-0 1st		152.84	89.88		Children of Da Coach 2-4-0 11th
Slobbernocker Pigs 3-3-0 8th		76.64	119.04		Mighty Mangosteens 4-2-0 2nd

SNICK

SATISF

SEE MO



Biggest Blowout

Week 6 Results



Safety Dancers
Laura Patterson Stein



vs. Children of Da Coach
Allie



VIEW A

TOYOTA

What is the IEM?

The IEM is an online futures market where contract payoffs are based on real-world events such as political outcomes, companies' earnings per share (EPS), and stock price returns. The market is operated by University of Iowa Henry B. Tippie College of Business faculty as an educational and research project. [More...](#)

[Who can participate in the IEM?](#)

[Are the participants playing with real money?](#)

[Can markets predict the future?](#)

[Can I get historical data from the IEM?](#)

[How do I start trading?](#)

[I need more information about the IEM...](#)

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September 9, 2014

[U.S. News Ranks Tippie 22nd Among Public Undergraduate Business Programs](#)

August 20, 2014

[Tippie Welcomes New Students](#)

August 8, 2014

[In the USA, Predictive Market Pioneer Is More Accurate Than Surveys](#)

August 8, 2014

[Researchers Studying Market Formula That Predicts Election Results](#)


Current Markets


2014 U.S. Congressional Election Markets




On Wednesday, December 26, 2012, the IEM opened markets in the 2014 U.S. Congressional elections. The IEM 2014 Congressional Control markets are real-money futures markets where contract payoffs will be determined by the outcomes of the 2014 U. S. Congressional elections.

Prospectuses:

 2014 Congress


 2014 House

 2014 Senate

Federal Reserve Monetary Policy Market



The IEM Federal Reserve Monetary Policy Market B (FedPolicyB) is a real-money futures market. Contract payoffs are determined by monetary policy decisions of the Federal Open Market Committee regarding the federal funds target rate.

 Overview

 Prospectus

 Data

Closed Markets

youth media arts organizations



new literacies in action

youth media arts organizations



reading text

learning to read

phonology - speech sounds

phonological awareness

orthography - spelling

phonics - decoding

syntax - grammar

syntax

morphology - word formation

vocabulary

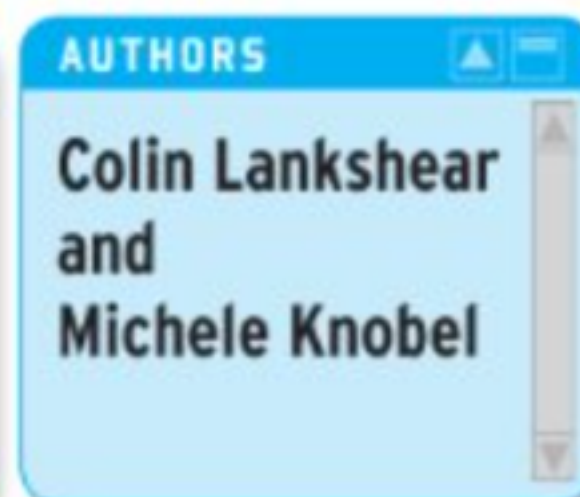
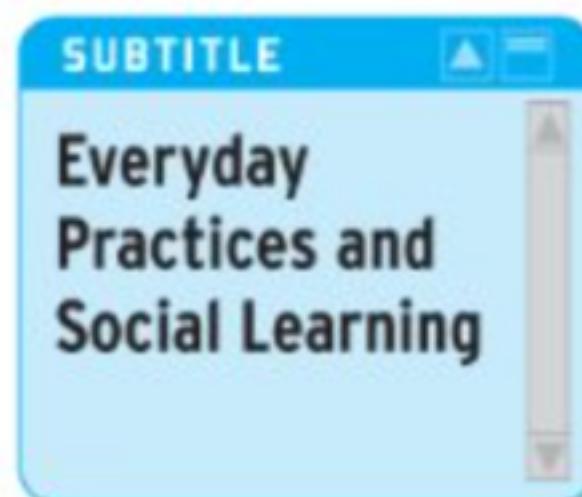
semantics - meaning

fluency and comprehension

Mastering each of these sub skills is necessary
for students to become proficient readers

Report of the National Reading Panel, 2000

is this how anyone becomes literate?



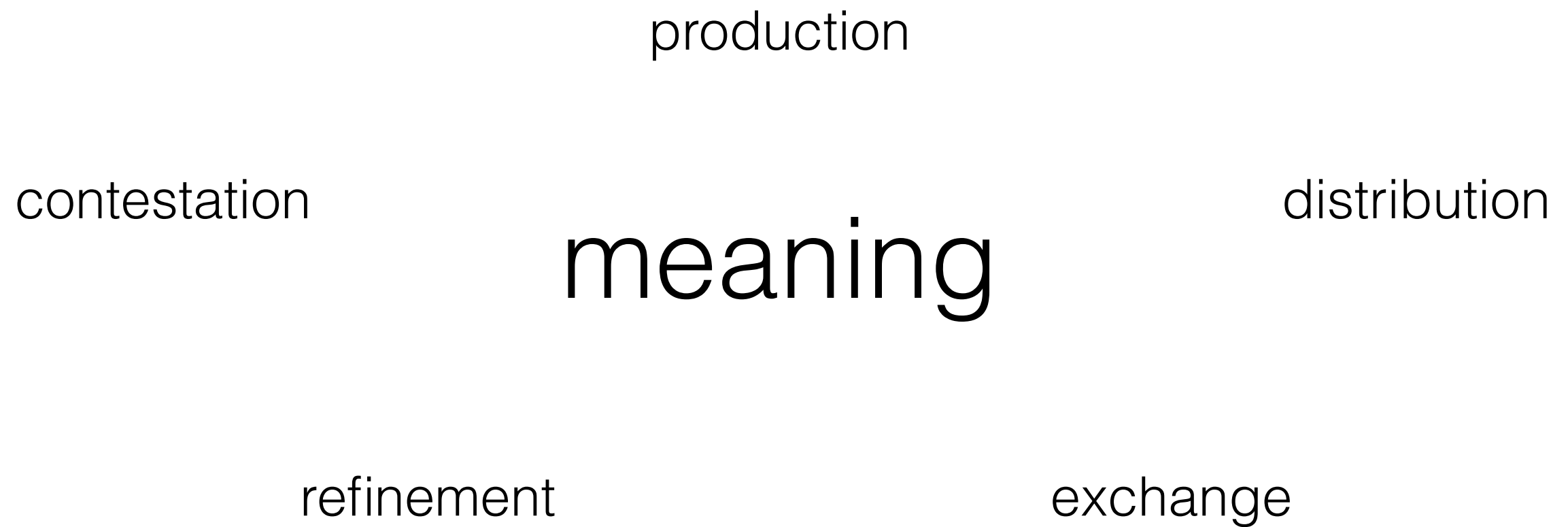
If we see literacy as “simply reading and writing”

—whether in the sense of encoding and decoding print, as a tool, a set of skills, or a technology, or as some kind of psychological process—

we cannot make sense of our literacy experience.

discourse

meaning-making



slip of the tongue


poem by adriel luis (youth speaks, san francisco)


film by karen lum (youth sounds, oakland)





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Announcements:

10.07.14 Burning Down the House Book Party with Nell Bernstein
09.23.14 Youth Radio Day @ Whole Foods, Thursday, September 25th
09.23.14 Party @ Pican

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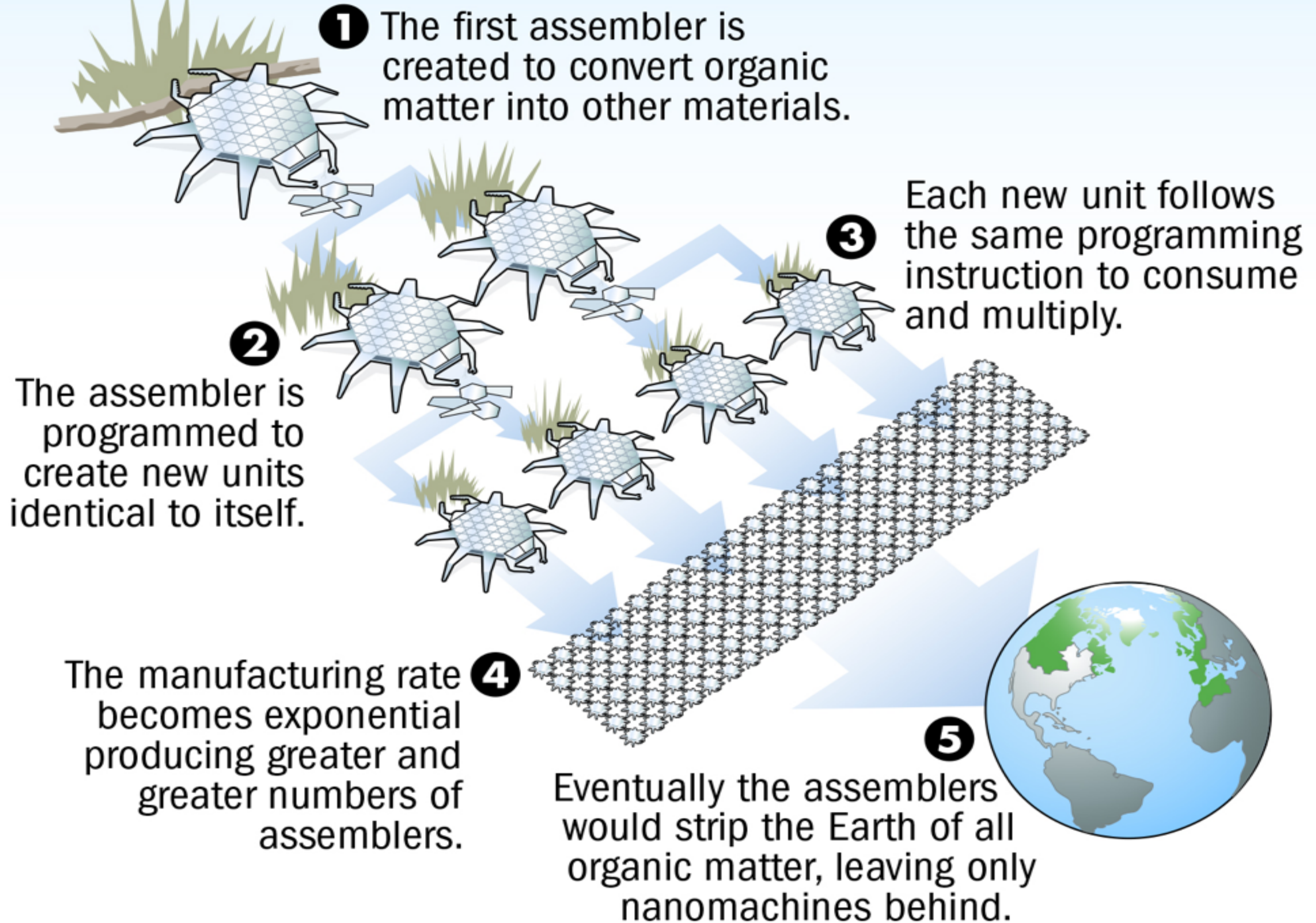
SKYNET
SAC NORAD



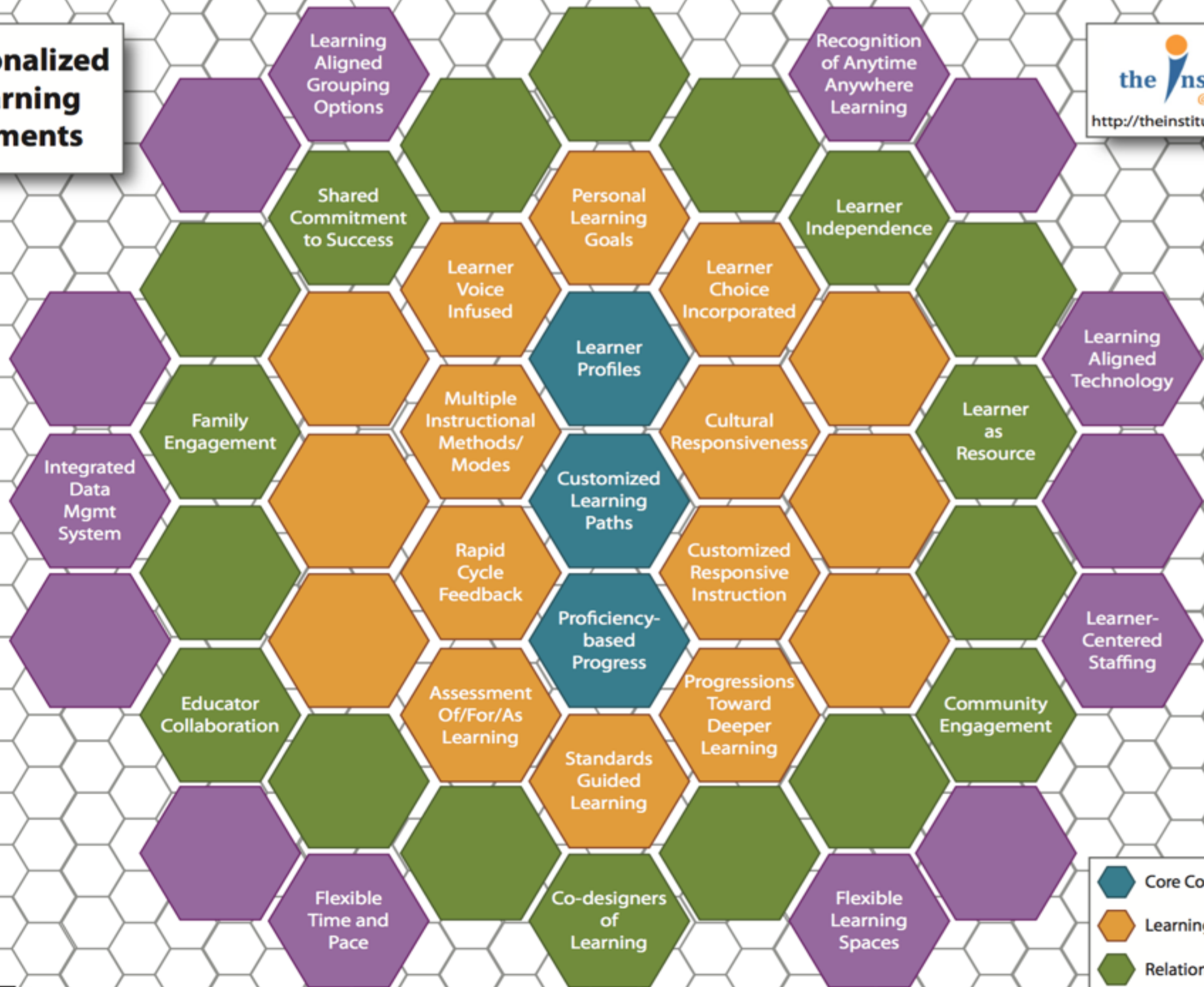
**Artificial Intelligence Controlled
Network Defense Computer System**

The Gray Goo Scenario

©2010 HowStuffWorks



Personalized Learning Elements



- Core Components
- Learning & Teaching
- Relationships & Roles
- Structures & Policies

Education

School

Learners

World



Education

School

Learners

World

A round cake decorated with white frosting and large red icing swirls. A slice has been removed, revealing a multi-layered interior with light-colored cake layers and a darker filling.

